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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,952	08/10/2001	Tetsuo Endoh	900-397	5574
75	08/06/2003			
NIXON & VANDERHYE P.C.			EXAMINER	
8th Floor 1100 North Gle			NGUYEN, JOSEPH H	
Arlington, VA	22201-4714		ART UNIT PAPER NUMBER 2815	
		;		
			DATE MAILED: 08/06/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
`	09/925,952	ENDOH ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Joseph Nguyen	2815				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 20	<u>May 2003</u> .					
2a)⊠ This action is FINAL. 2b)□ T	his action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-19 and 29-52 is/are pending in the	e application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-19 and 29-52</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>10 August 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☑ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)				
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office A	ction Summary	Part of Paper No. 7				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-19,29-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Burns, Jr. et al.

Regarding claim 1, Burns, Jr. et al discloses on figure 10 a semiconductor memory comprising a first conductivity type semiconductor substrate 235; and one or more memory cells comprising an island like semiconductor layer 230, a charge storage layer 265 and a control gate 275, the charge storage layer and the control gate being formed to entirely or partially encircle a sidewall of the island like semiconductor layer, wherein an active region of at least one of said memory cells is electrically insulated from the semiconductor substrate.

Regarding claims 2-19, 29-35, Burns, Jr. et al discloses on figure 10 all the structures set forth in the claimed invention.

Regarding claim 36, Burns, Jr. et al discloses on figure 10 a semiconductor memory comprising a first conductivity type semiconductor substrate 235; at least one memory cell comprising an island like semiconductor layer 230, a charge storage layer 265 and a control gate 275, wherein the charge storage layer and the control gate

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entirely or partially laterally surround at least a portion of a sidewall of the island like semiconductor layer; and wherein an active region of said memory cell is electrically insulated from the semiconductor substrate.

Regarding claims 37-45, Burns, Jr. et al discloses on figure 10 all the structures set forth in the claimed invention.

Regarding claim 46, Burns, Jr. et al discloses on figure 10 a semiconductor memory comprising a first conductivity type semiconductor substrate 235; at least one memory cell comprising a pillar shaped semiconductor layer 230 having a height dimension greater than a width dimension, a charge storage layer 265 and a control gate 275, wherein the charge storage layer and the control gate entirely or partially laterally surround at least a portion of a sidewall of the pillar shaped semiconductor layer, wherein the sidewall of the pillar shaped semiconductor layer extends vertically relative to the semiconductor substrate; and wherein at least a portion of the pillar shaped semiconductor layer of the memory cell is electrically insulated from the semiconductor substrate.

Regarding claims 47-52, Burns, Jr. et al discloses on figure 10 all the structures set forth in the claimed invention.

Response to Arguments

Applicant's arguments with respect to claims 1-19,29-52 have been considered but are most in view of the new ground(s) of rejection.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Nguyen whose telephone number is (703) 308-1269. The examiner can normally be reached on Monday-Friday, 7:30 am- 4:30 pm

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 308-7382 for regular communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JN July 30, 2003

EDDIE LEE

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800